

Special Issue

Advances in Wireless Communication Technology in Oceanic Turbulence

Message from the Guest Editor

Underwater optical wireless communications (OWCs) are an innovative technology that can enable high-speed mobile transmission. The use of photonics underwater is restricted by the absorption, scattering and turbulence, and the intensity, polarization and phase of light can be destroyed by underwater environments. These effects can degrade the performances of underwater OWCs in an underwater medium. To overcome the negative effects of an underwater medium, various beams have been introduced into the studies of OWC, such as orbital angular moment (OAM), partially coherent beams and structured beams. Moreover, researchers are developing advanced techniques to enhance the performances of underwater OWC technologies, such as micro LEDs, VCSELs and photodetectors. This Special Issue will discuss the related technologies of underwater OWCs and cover a broad field of propagation, the scintillation index, BER and photonics technologies in underwater medium.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2025)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/205682

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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